



EDUCATION AND SCHOLASTIC ACHIEVEMENTS				
Program		Institute	% / CGPA	Year
B. Tech in Mechanical Engineering		Indian Institute of Technology, Madras	8.1/10.00	2027
Class XII (CBSE)		Rahul International School, Thane	94.8%	2023
Class X (ICSE)		VIBGYOR High School, Mumbai	97.2%	2021
• Kishore Vaigyanik Protsahan Yojana (KVPY) Fellow – Top 1 percentile national – Awarded by Department of Science and Technology, Govt. Of India – 2023				
• Ranked in Top 0.2% from over 1 million candidates in Joint Entrance Examination – Mains, and an All India Rank of 2238 in IIT – JEE Advanced. – 2023				
• Placed among Top 100 in Indian National Junior Science Olympiad, Top 200 in National Standard Examination for Junior Science by IAPT ^[1] and HBCSE ^[2] – 2020				
PROFESSIONAL EXPERIENCE				
Proctor & Gamble – Product Supply Spotlight <i>(June 2025)</i>		• Selected in top 41 from 1000+ applicants from 5 colleges for the Proctor & Gamble Product Supply Spotlight Program 2025 • Gained structured insights into process innovation, supply chain dynamics, and people leadership in a high-output environment • Built relationships with senior P&G leaders through networking events and case-style simulations on operational challenges		
Mahindra Research Valley – Intern <i>(May 2025 – June 2025)</i>		Development and Testing Intern – Part of Thermal Department in Product Development, Automotive Division • Diagnosed systemic cooling failures across 7 proto vehicles, recommendations led to a 15% improvement in thermal stability • Collected and analyzed results from multi-vehicle testing, delivering data-backed insights under tight shared-resource timelines • Designed and tested various iterations for low-temperature coolant loop to eliminate degassing tank, optimizing space by 5%		
RAFTAR FORMULA RACING				
Formula Bharat 2025 National Runners – Up <i>(Jan 2025)</i>		• Responsible for all aerodynamic decisions and vehicle testing information, also represented the team in VEDC ^[3] finals QnA • Winners of Statics Award, 2nd in Dynamics Award for the EV category out of 40+ teams from across India, Sri Lanka and Nepal • 1st place in Engineering Design, and Cost and Manufacturing events, Winners of MathWorks Skidpad Simulation Challenge • One of only 3 teams to clear Mechanical Inspection with a complete Aerodynamic Package, a first for the team since 2020		
KEY AREAS OF RESPONSIBILITY				
Business Plan <i>(May 2024 – present)</i>	Core	• Recruited and mentored 8 nd year associates in making pitch decks, business model canvases and analyzing various business • Increased team efficiency by 45% via categorical work allocation and implemented exclusive associate training for learning		
	Associate	• Ideated and planned a profitable business revolving around the car for a static event at a FSAE ^[4] competition in a team of 10 • Evaluated the market and business using data analysis, linear regression, balance sheets, cash flows and income statements • Developed an executable and profitable expansion plan, strategic partnership, and a pitch deck for the fictional company		
Aerodynamics & Cooling <i>(March 2024 – present)</i>	Design Crew	• Recruited 4 members out of 100+ applicants into the aerodynamics subsystem and managed their task progress and learning • Evaluated various models for testing aerodynamic performance and structural stability for improved correlation in future design • Improved subsystem operational efficiency by 21% by ably managing INR 3L+ budget and creating detailed design timeline		
	Chassis Engineer	• Overseeing precise procurement, manufacturing, and assembly of all CFRP ^[5] components, strictly adhering to team timelines • Reduced assembly time by 22% for more efficient race-day strategies while ensuring compliance with competition regulations • Authored detailed design and manufacturing reports to facilitate knowledge transfer in the team, and across FSAE community		
ORATORY CLUB				
Oratory Contingent Member <i>(Apr 2024 – present)</i>		Won accolades while representing IITM at multiple national debates including IITB Debate '24, CUPD '24, DILIMAN Intervarsity '24 • 1st, Comfiesta JAM'24 • 2nd, Stella Maris Debate'24 • 3rd, Pragati Debate'25 • 2nd, Freshie Shipwreck'24 • 7th Best Novice Speaker at Christ University PD'24, BLR • Judging Panelist for Open Quarter Finals, BITS Pilani PD'24 • Scouted and onboarded incoming talents, to nurture their speaking skills and select them for the Institute Oratory Contingent		
KEY AREAS OF RESPONSIBILITY				
Oratory Club Coordinator <i>(June 2024 – March 2025)</i>		• Conducted, and designed posters for, over 5 new debating events, increasing year-round participation among students by 40% • Organized Saarang ^[6] inter-collegiate eloquence competitions, handling 1k+ participants and coordinating with national judges • Ensured seamless execution of events, throughout the year, by efficiently managing communications and on-ground logistics		
IITMPD Sponsorship & Public Relations Head <i>(March 2025 – May 2025)</i>		• Led a 20-member team for contacting 100+ companies, securing sponsorships worth INR 1.5L+ for flagship debate IITMPD ^[7] • Established strong digital social media presence by designing targeted content and posters, increasing national outreach by 48% • Coordinated on-ground requirements, payments for 7+ sponsor partners, and accommodation for 200+ debate participants		
TECHNICAL PROJECTS				
AERODYNAMICS & COOLING DESIGN FOR FSAE VEHICLE: Guided by Prof. Satya Narayanan S, Applied Mechanics, IIT Madras				
Aerodynamic and Structural Design of Front Wing <i>(June 2024 – August 2024)</i>		• Engineered a new front wing with 26% higher downforce by minimizing flow separation for improved grip in low-speed corners • Improved structural rigidity by 67% using ANSYS simulations, ensuring rules compliance and reliability under loading conditions • Applied data-driven optimization strategies to endplates using pressure-based clustering from ANSYS Fluent CFD ^[8] simulations • Achieved 19% aerodynamic efficiency gain and 33% weight reduction of component, improving lap-times and handling balance		
Design of Cooling system <i>(Oct 2024 – Jan 2025)</i>		• Reduced radiator size by 55%, eliminated cooling fan by strategic repositioning of the radiator, reducing power requirements • Modeled pressure drops across cooling loop components using CFD sims and integrated findings into MATLAB for optimization • Achieved a 5-fold decrease in effective computational time per iteration using a transformed inlet condition for boundary setup		
Manufacturing of Composite Components <i>(Nov 2024 – Apr 2025)</i>		• Developed programmable toolpath for 2-axis hotwire, 3-axis milling machine to cut polystyrene foam molds for all components • Precisely manufactured more than 20 CFRP parts for the RFR25 car through careful hand lay-up and vacuum bagging methods • Improved structural rigidity by replacing aluminum with carbon fiber spars and ribs, while decreasing weight in key components		
Airfoil Analysis <i>(March 2025 – Apr 2025)</i>		• Enabled informed geometry selection by simulating 14 airfoils using 30+ 2D CFD cases to compare aerodynamic performance • Investigated various geometric parameters to understand their influence on flow behavior, using iterative ANSYS Fluent studies • Developed data-driven optimization strategies to enhance aerodynamic performance by 12%, across different vehicle sections		
Course: ME2400 – Measurements, Instrumentation and Control: Guided by Dr. Sushanta Panigrahi, Mechanical Engineering				
Design of Anti-Sleep Alarm System <i>(March 2025 – Apr 2025)</i>		• Led a group of 6 to develop and assemble Sleep Detection glasses, to help prevent accidents by identifying driver fatigue signs • Designed and 3D-printed custom ESP circuit mounts for weight and space optimization, ensuring rigidity and easy assembly • Programmed custom Arduino circuit board to simulate vehicle dashboard, integrating alerts and motor control for emergencies		
EXTRA-CURRICULAR ACTIVITIES				
Music		• Rockschoool Level 2 certification in Popular Music Performance, having passed Grade 1-5 Exams for playing Electric Guitar • Performed live on stage as part of different bands at IITM Freshers' Night'23, and Music Night'23, to an audience of 1000+		

[1] – Indian Association of Physics Teacher [2] – Homi Bhabha Centre for Science Education [3] – Vehicle Engineering Design Competition [4] – Formula Society of Automotive Engineers [5] – Carbon Fiber Reinforced Polymer [6] – IITM's Cultural Fest [7] – IIT Madras Parliamentary Debate [8] – Computational Fluid Dynamics